

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.**

Application Serial Number: 10/714,470

Source: 1Fujo

Date Processed by STIC: 11/9/04

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IFWO

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/714,470

DATE: 11/09/2004  
TIME: 16:39:52

Input Set : A:\PTO.FG.txt  
Output Set: N:\CRF4\11092004\J714470.raw

3 <110> APPLICANT: DIETZ, HARRY C.  
4 ARKING, DAN E.  
6 <120> TITLE OF INVENTION: DETECTION OF A PREDISPOSITION FOR THE DEVELOPMENT OF  
7 CORONARY ARTERY DISEASE  
9 <130> FILE REFERENCE: 60277(71699)  
11 <140> CURRENT APPLICATION NUMBER: 10/714,470  
12 <141> CURRENT FILING DATE: 2003-11-13  
14 <150> PRIOR APPLICATION NUMBER: 60/425,865  
15 <151> PRIOR FILING DATE: 2002-11-13  
17 <160> NUMBER OF SEQ ID NOS: 6  
19 <170> SOFTWARE: PatentIn Ver. 3.2  
21 <210> SEQ ID NO: 1  
22 <211> LENGTH: 549  
23 <212> TYPE: PRT  
24 <213> ORGANISM: Homo sapiens  
26 <400> SEQUENCE: 1  
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30 Leu Ser Leu Leu Leu Val Leu Leu Gly Leu Gly Gly Arg Arg Leu Arg  
31 20 25 30  
33 Ala Glu Pro Gly Asp Gly Ala Gln Thr Trp Ala Arg Phe Ser Arg Pro  
34 35 40 45  
36 Pro Ala Pro Glu Ala Ala Gly Leu Phe Gln Gly Thr Phe Pro Asp Gly  
37 50 55 60  
39 Phe Leu Trp Ala Val Gly Ser Ala Ala Tyr Gln Thr Glu Gly Gly Trp  
40 65 70 75 80  
42 Gln Gln His Gly Lys Gly Ala Ser Ile Trp Asp Thr Phe Thr His His  
43 85 90 95  
45 Pro Leu Ala Pro Pro Gly Asp Ser Arg Asn Ala Ser Leu Pro Leu Gly  
46 100 105 110  
48 Ala Pro Ser Pro Leu Gln Pro Ala Thr Gly Asp Val Ala Ser Asp Ser  
49 115 120 125  
51 Tyr Asn Asn Val Phe Arg Asp Thr Glu Ala Leu Arg Glu Leu Gly Val  
52 130 135 140  
54 Thr His Tyr Arg Phe Ser Ile Ser Trp Ala Arg Val Leu Pro Asn Gly  
55 145 150 155 160  
57 Ser Ala Gly Val Pro Asn Arg Glu Gly Leu Arg Tyr Tyr Arg Arg Leu  
58 165 170 175  
60 Leu Glu Arg Leu Arg Glu Leu Gly Val Gln Pro Val Val Thr Leu Tyr  
61 180 185 190  
63 His Trp Asp Leu Pro Gln Arg Leu Gln Asp Ala Tyr Gly Trp Ala  
64 195 200 205  
66 Asn Arg Ala Leu Ala Asp His Phe Arg Asp Tyr Ala Glu Leu Cys Phe

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67 210 215 220  
 69 Arg His Phe Gly Gly Gln Val Lys Tyr Trp Ile Thr Ile Asp Asn Pro  
 70 225 230 235 240  
 72 Tyr Val Val Ala Trp His Gly Tyr Ala Thr Gly Arg Leu Ala Pro Gly  
 73 245 250 255  
 75 Ile Arg Gly Ser Pro Arg Leu Gly Tyr Leu Val Ala His Asn Leu Leu  
 76 260 265 270  
 78 Leu Ala His Ala Lys Val Trp His Leu Tyr Asn Thr Ser Phe Arg Pro  
 79 275 280 285  
 81 Thr Gln Gly Gly Gln Val Ser Ile Ala Leu Ser Ser His Trp Ile Asn  
 82 290 295 300  
 84 Pro Arg Arg Met Thr Asp His Ser Ile Lys Glu Cys Gln Lys Ser Leu  
 85 305 310 315 320  
 87 Asp Phe Val Leu Gly Trp Phe Ala Lys Pro Val Phe Ile Asp Gly Asp  
 88 325 330 335  
 90 Tyr Pro Glu Ser Met Lys Asn Asn Leu Ser Ser Ile Leu Pro Asp Phe  
 91 340 345 350  
 93 Thr Glu Ser Glu Lys Lys Phe Ile Lys Gly Thr Ala Asp Phe Phe Ala  
 94 355 360 365  
 96 Leu Cys Phe Gly Pro Thr Leu Ser Phe Gln Leu Leu Asp Pro His Met  
 97 370 375 380  
 99 Lys Phe Arg Gln Leu Ser Pro Asn Leu Arg Gln Leu Leu Ser Trp  
 100 385 390 395 400  
 102 Ile Asp Leu Glu Phe Asn His Pro Gln Ile Phe Ile Val Glu Asn Gly  
 103 405 410 415  
 105 Trp Phe Val Ser Gly Thr Thr Lys Arg Asp Asp Ala Lys Tyr Met Tyr  
 106 420 425 430  
 108 Tyr Leu Lys Lys Phe Ile Met Glu Thr Leu Lys Ala Ile Lys Leu Asp  
 109 435 440 445  
 111 Gly Val Asp Val Ile Gly Tyr Thr Ala Trp Ser Leu Met Asp Gly Phe  
 112 450 455 460  
 114 Glu Trp His Arg Gly Tyr Ser Ile Arg Arg Gly Leu Phe Tyr Val Asp  
 115 465 470 475 480  
 117 Phe Leu Ser Gln Asp Lys Met Leu Leu Pro Lys Ser Ser Ala Leu Phe  
 118 485 490 495  
 120 Tyr Gln Lys Leu Ile Glu Lys Asn Gly Phe Pro Pro Leu Pro Glu Asn  
 121 500 505 510  
 123 Gln Pro Leu Glu Gly Thr Phe Pro Cys Asp Phe Ala Trp Gly Val Val  
 124 515 520 525  
 126 Asp Asn Tyr Ile Gln Val Ser Gln Leu Thr Lys Pro Ile Ser Ser Leu  
 127 530 535 540  
 129 Thr Lys Pro Tyr His  
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 134 <210> SEQ ID NO: 2  
 135 <211> LENGTH: 1012  
 136 <212> TYPE: PRT  
 137 <213> ORGANISM: Homo sapiens  
 139 <400> SEQUENCE: 2  
 140 Met Pro Ala Ser Ala Pro Pro Arg Arg Pro Arg Pro Pro Gln Ser

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141	1	5	10	15												
143	Leu	Ser	Leu	Leu	Leu	Val	Leu	Leu	Gly	Leu	Gly	Gly	Arg	Arg	Leu	Arg
144															30	
146	Ala	Glu	Pro	Gly	Asp	Gly	Ala	Gln	Thr	Trp	Ala	Arg	Phe	Ser	Arg	Pro
147															45	
149	Pro	Ala	Pro	Glu	Ala	Ala	Gly	Leu	Phe	Gln	Gly	Thr	Phe	Pro	Asp	Gly
150															60	
152	Phe	Leu	Trp	Ala	Val	Gly	Ser	Ala	Ala	Tyr	Gln	Thr	Glu	Gly	Gly	Trp
153															80	
155	Gln	Gln	His	Gly	Lys	Gly	Ala	Ser	Ile	Trp	Asp	Thr	Phe	Thr	His	His
156															95	
158	Pro	Leu	Ala	Pro	Pro	Gly	Asp	Ser	Arg	Asn	Ala	Ser	Leu	Pro	Leu	Gly
159															110	
161	Ala	Pro	Ser	Pro	Leu	Gln	Pro	Ala	Thr	Gly	Asp	Val	Ala	Ser	Asp	Ser
162															125	
164	Tyr	Asn	Asn	Val	Phe	Arg	Asp	Thr	Glu	Ala	Leu	Arg	Glu	Leu	Gly	Val
165															140	
167	Thr	His	Tyr	Arg	Phe	Ser	Ile	Ser	Trp	Ala	Arg	Val	Leu	Pro	Asn	Gly
168															160	
170	Ser	Ala	Gly	Val	Pro	Asn	Arg	Glu	Gly	Leu	Arg	Tyr	Tyr	Arg	Arg	Leu
171															175	
173	Leu	Glu	Arg	Leu	Arg	Glu	Leu	Gly	Val	Gln	Pro	Val	Val	Thr	Leu	Tyr
174															190	
176	His	Trp	Asp	Leu	Pro	Gln	Arg	Leu	Gln	Asp	Ala	Tyr	Gly	Gly	Trp	Ala
177															205	
179	Asn	Arg	Ala	Leu	Ala	Asp	His	Phe	Arg	Asp	Tyr	Ala	Glu	Leu	Cys	Phe
180															220	
182	Arg	His	Phe	Gly	Gly	Gln	Val	Lys	Tyr	Trp	Ile	Thr	Ile	Asp	Asn	Pro
183															240	
185	Tyr	Val	Val	Ala	Trp	His	Gly	Tyr	Ala	Thr	Gly	Arg	Leu	Ala	Pro	Gly
186															255	
188	Ile	Arg	Gly	Ser	Pro	Arg	Leu	Gly	Tyr	Leu	Val	Ala	His	Asn	Leu	Leu
189															270	
191	Leu	Ala	His	Ala	Lys	Val	Trp	His	Leu	Tyr	Asn	Thr	Ser	Phe	Arg	Pro
192															285	
194	Thr	Gln	Gly	Gly	Gln	Val	Ser	Ile	Ala	Leu	Ser	Ser	His	Trp	Ile	Asn
195															300	
197	Pro	Arg	Arg	Met	Thr	Asp	His	Ser	Ile	Lys	Glu	Cys	Gln	Lys	Ser	Leu
198															320	
200	Asp	Phe	Val	Leu	Gly	Trp	Phe	Ala	Lys	Pro	Val	Phe	Ile	Asp	Gly	Asp
201															335	
203	Tyr	Pro	Glu	Ser	Met	Lys	Asn	Asn	Leu	Ser	Ser	Ile	Leu	Pro	Asp	Phe
204															350	
206	Thr	Glu	Ser	Glu	Lys	Lys	Phe	Ile	Lys	Gly	Thr	Ala	Asp	Phe	Phe	Ala
207															365	
209	Leu	Cys	Phe	Gly	Pro	Thr	Leu	Ser	Phe	Gln	Leu	Leu	Asp	Pro	His	Met
210															380	
212	Lys	Phe	Arg	Gln	Leu	Glu	Ser	Pro	Asn	Leu	Arg	Gln	Leu	Leu	Ser	Trp
213															400	
	385		390		395											

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215 Ile Asp Leu Glu Phe Asn His Pro Gln Ile Phe Ile Val Glu Asn Gly  
 216 405 410 415  
 218 Trp Phe Val Ser Gly Thr Thr Lys Arg Asp Asp Ala Lys Tyr Met Tyr  
 219 420 425 430  
 221 Tyr Leu Lys Lys Phe Ile Met Glu Thr Leu Lys Ala Ile Lys Leu Asp  
 222 435 440 445  
 224 Gly Val Asp Val Ile Gly Tyr Thr Ala Trp Ser Leu Met Asp Gly Phe  
 225 450 455 460  
 227 Glu Trp His Arg Gly Tyr Ser Ile Arg Arg Gly Leu Phe Tyr Val Asp  
 228 465 470 475 480  
 230 Phe Leu Ser Gln Asp Lys Met Leu Leu Pro Lys Ser Ser Ala Leu Phe  
 231 485 490 495  
 233 Tyr Gln Lys Leu Ile Glu Lys Asn Gly Phe Pro Pro Leu Pro Glu Asn  
 234 500 505 510  
 236 Gln Pro Leu Glu Gly Thr Phe Pro Cys Asp Phe Ala Trp Gly Val Val  
 237 515 520 525  
 239 Asp Asn Tyr Ile Gln Val Asp Thr Thr Leu Ser Gln Phe Thr Asp Leu  
 240 530 535 540  
 242 Asn Val Tyr Leu Trp Asp Val His His Ser Lys Arg Leu Ile Lys Val  
 243 545 550 555 560  
 245 Asp Gly Val Val Thr Lys Lys Arg Lys Ser Tyr Cys Val Asp Phe Ala  
 246 565 570 575  
 248 Ala Ile Gln Pro Gln Ile Ala Leu Leu Gln Glu Met His Val Thr His  
 249 580 585 590  
 251 Phe Arg Phe Ser Leu Asp Trp Ala Leu Ile Leu Pro Leu Gly Asn Gln  
 252 595 600 605  
 254 Ser Gln Val Asn His Thr Ile Leu Gln Tyr Tyr Arg Cys Met Ala Ser  
 255 610 615 620  
 257 Glu Leu Val Arg Val Asn Ile Thr Pro Val Val Ala Leu Trp Gln Pro  
 258 625 630 635 640  
 260 Met Ala Pro Asn Gln Gly Leu Pro Arg Leu Leu Ala Arg Gln Gly Ala  
 261 645 650 655  
 263 Trp Glu Asn Pro Tyr Thr Ala Leu Ala Phe Ala Glu Tyr Ala Arg Leu  
 264 660 665 670  
 266 Cys Phe Gln Glu Leu Gly His His Val Lys Leu Trp Ile Thr Met Asn  
 267 675 680 685  
 269 Glu Pro Tyr Thr Arg Asn Met Thr Tyr Ser Ala Gly His Asn Leu Leu  
 270 690 695 700  
 272 Lys Ala His Ala Leu Ala Trp His Val Tyr Asn Glu Lys Phe Arg His  
 273 705 710 715 720  
 275 Ala Gln Asn Gly Lys Ile Ser Ile Ala Leu Gln Ala Asp Trp Ile Glu  
 276 725 730 735  
 278 Pro Ala Cys Pro Phe Ser Gln Lys Asp Lys Glu Val Ala Glu Arg Val  
 279 740 745 750  
 281 Leu Glu Phe Asp Ile Gly Trp Leu Ala Glu Pro Ile Phe Gly Ser Gly  
 282 755 760 765  
 284 Asp Tyr Pro Trp Val Met Arg Asp Trp Leu Asn Gln Arg Asn Asn Phe  
 285 770 775 780  
 287 Leu Leu Pro Tyr Phe Thr Glu Asp Glu Lys Lys Leu Ile Gln Gly Thr

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288	785	790	795	800												
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293	Glu	Lys	Glu	Asp	Pro	Ile	Lys	Tyr	Asn	Asp	Tyr	Leu	Glu	Val	Gln	Glu
294				820					825						830	
296	Met	Thr	Asp	Ile	Thr	Trp	Leu	Asn	Ser	Pro	Ser	Gln	Val	Ala	Val	Val
297				835					840						845	
299	Pro	Trp	Gly	Leu	Arg	Lys	Val	Leu	Asn	Trp	Leu	Lys	Phe	Lys	Tyr	Gly
300				850					855						860	
302	Asp	Leu	Pro	Met	Tyr	Ile	Ile	Ser	Asn	Gly	Ile	Asp	Asp	Gly	Leu	His
303				865					870						880	
305	Ala	Glu	Asp	Asp	Gln	Leu	Arg	Val	Tyr	Tyr	Met	Gln	Asn	Tyr	Ile	Asn
306				885					890						895	
308	Glu	Ala	Leu	Lys	Ala	His	Ile	Leu	Asp	Gly	Ile	Asn	Leu	Cys	Gly	Tyr
309				900					905						910	
311	Phe	Ala	Tyr	Ser	Phe	Asn	Asp	Arg	Thr	Ala	Pro	Arg	Phe	Gly	Leu	Tyr
312				915					920						925	
314	Arg	Tyr	Ala	Ala	Asp	Gln	Phe	Glu	Pro	Lys	Ala	Ser	Met	Lys	His	Tyr
315				930					935						940	
317	Arg	Lys	Ile	Ile	Asp	Ser	Asn	Gly	Phe	Pro	Gly	Pro	Glu	Thr	Leu	Glu
318				945					950						960	
320	Arg	Phe	Cys	Pro	Glu	Glu	Phe	Thr	Val	Cys	Thr	Glu	Cys	Ser	Phe	Phe
321				965					970						975	
323	His	Thr	Arg	Lys	Ser	Leu	Leu	Ala	Phe	Ile	Ala	Phe	Leu	Phe	Phe	Ala
324				980					985						990	
326	Ser	Ile	Ile	Ser	Leu	Leu	Ile	Phe	Tyr	Tyr	Ser	Lys	Lys	Gly	Arg	
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344				20					25						30	
346	Ala	Glu	Pro	Gly	Asp	Gly	Ala	Gln	Thr	Trp	Ala	Arg	Phe	Ser	Arg	Pro
347				35					40						45	
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350				50					55						60	
352	Phe	Leu	Trp	Ala	Val	Gly	Ser	Ala	Ala	Tyr	Gln	Thr	Glu	Gly	Gly	Trp
353				65					70						80	
355	Gln	Gln	His	Gly	Lys	Gly	Ala	Ser	Ile	Trp	Asp	Thr	Phe	Thr	His	His
356				85					90						95	
358	Pro	Leu	Ala	Pro	Pro	Gly	Asp	Ser	Arg	Asn	Ala	Ser	Leu	Pro	Leu	Gly
359				100					105						110	
361	Ala	Pro	Ser	Pro	Leu	Gln	Pro	Ala	Thr	Gly	Asp	Val	Ala	Ser	Asp	Ser

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